

PC-0044 CIP

Ser Gln Val Thr Lys Ser Ser Pro Glu Gln Ser Tyr Gln Gly Asp
305 310 315
Met Tyr Pro Thr Arg Gly Val Gly Tyr Glu Thr Ile Leu Lys Glu
320 325 330
Gln Lys Gly Gln Ser Met Phe Val Glu Asn Lys Ala Phe Ser Met
335 340 345
Asp Glu Pro Val Ala Ala Lys Arg Pro Val Ser Pro Tyr Ser Gly
350 355 360
Tyr Asn Gly Gln Leu Leu Thr Ser Val Tyr Gln Pro Thr Glu Met
365 370 375
Ala Leu Met His Lys Val Pro Ser Glu Gly Ala Tyr Asp Ile Ile
380 385 390
Leu Pro Arg Ala Thr Ala Asn Ser Gln Val Met Gly Ser Ala Asn
395 400 405
Ser Thr Leu Arg Ala Glu Asp Met Tyr Ser Ala Gln Ser His Gln
410 415 420
Ala Ala Thr Pro Pro Lys Asp Gly Lys Asn Ser Gln Val Phe Arg
425 430 435
Asn Pro Tyr Val Trp Asp
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<210> 2
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<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1459432CD1

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20 25 30
Pro Arg Thr Gly Ser Ile Ser Tyr Ile Asn Ile Ile Met Pro Ser
35 40 45
Val Phe Gly Thr Ile Cys Leu Leu Gly Ile Ile Gly Asn Ser Thr
50 55 60
Val Ile Phe Ala Val Val Lys Lys Ser Lys Leu His Trp Cys Asn
65 70 75
Asn Val Pro Asp Ile Phe Ile Ile Asn Leu Ser Val Val Asp Leu
80 85 90
Leu Phe Leu Leu Gly Met Pro Phe Met Ile His Gln Leu Met Gly
95 100 105
Asn Gly Val Trp His Phe Gly Glu Thr Met Cys Thr Leu Ile Thr
110 115 120
Ala Met Asp Ala Asn Ser Gln Phe Thr Ser Thr Tyr Ile Leu Thr
125 130 135
Ala Met Ala Ile Asp Arg Tyr Leu Ala Thr Val His Pro Ile Ser
140 145 150
Ser Thr Lys Phe Arg Lys Pro Ser Val Ala Thr Leu Val Ile Cys
155 160 165
Leu Leu Trp Ala Leu Ser Phe Ile Ser Ile Thr Pro Val Trp Leu
170 175 180
Tyr Ala Arg Leu Ile Pro Phe Pro Gly Gly Ala Val Gly Cys Gly
185 190 195
Ile Arg Leu Pro Asn Pro Asp Thr Asp Leu Tyr Trp Phe Thr Leu
200 205 210
Tyr Gln Phe Phe Leu Ala Phe Ala Leu Pro Phe Val Val Ile Thr
215 220 225
Ala Ala Tyr Val Arg Ile Leu Gln Arg Met Thr Ser Ser Val Ala
230 235 240
Pro Thr Ser Gln Arg Ser Ile Arg Leu Arg Thr Lys Arg Val Thr
245 250 255
Arg Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val Cys Trp Ala

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Pro	Tyr	Tyr	Val	260	Leu	Gln	Leu	Thr	Gln	265	Leu	Ser	Ile	Ser	Arg	270	Pro
Thr	Pro	Thr	Phe	275	Val	Tyr	Leu	Tyr	Asn	280	Ala	Ala	Ile	Ser	Leu	285	Gly
Tyr	Ala	Asn	Ser	290	Cys	Leu	Asn	Pro	Phe	295	Val	Tyr	Ile	Val	Leu	300	Cys
Glu	Thr	Phe	Arg	305	Lys	Arg	Leu	Val	Leu	310	Ser	Val	Lys	Pro	Ala	315	Ala
Gln	Gly	Gln	Leu	320	Arg	Ala	Val	Ser	Asn	325	Ala	Gln	Ala	Ala	Asp	330	Glu
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<211> 333

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<213> Homo sapiens

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<223> Incyte ID No: 2214673CD1

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				20					25					30
Leu	Leu	Gly	Leu	Val	Val	Gly	Val	Pro	Val	Gly	Leu	Cys	Tyr	Asn
				35					40					45
Ala	Leu	Leu	Val	Leu	Ala	Asn	Leu	His	Ser	Lys	Ala	Ser	Met	Thr
				50					55					60
Met	Pro	Asp	Val	Tyr	Phe	Val	Asn	Met	Ala	Val	Ala	Gly	Leu	Val
				65					70					75
Leu	Ser	Ala	Leu	Ala	Pro	Val	His	Leu	Leu	Gly	Pro	Pro	Ser	Ser
				80					85					90
Arg	Trp	Ala	Leu	Trp	Ser	Val	Gly	Gly	Glu	Val	His	Val	Ala	Leu
				95					100					105
Gln	Ile	Pro	Phe	Asn	Val	Ser	Ser	Leu	Val	Ala	Met	Tyr	Ser	Thr
				110					115					120
Ala	Leu	Leu	Ser	Leu	Asp	His	Tyr	Ile	Glu	Arg	Ala	Leu	Pro	Arg
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Thr	Tyr	Met	Ala	Ser	Val	Tyr	Asn	Thr	Arg	His	Val	Cys	Gly	Phe
				140					145					150
Val	Trp	Gly	Gly	Ala	Leu	Leu	Thr	Ser	Phe	Ser	Ser	Leu	Leu	Phe
				155					160					165
Tyr	Ile	Cys	Ser	His	Val	Ser	Thr	Arg	Ala	Leu	Glu	Cys	Ala	Lys
				170					175					180
Met	Gln	Asn	Ala	Glu	Ala	Ala	Asp	Ala	Thr	Leu	Val	Phe	Ile	Gly
				185					190					195
Tyr	Val	Val	Pro	Ala	Leu	Ala	Thr	Leu	Tyr	Ala	Leu	Val	Leu	Leu
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Ser	Arg	Val	Arg	Arg	Glu	Asp	Thr	Pro	Leu	Asp	Arg	Asp	Thr	Gly
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Arg	Leu	Glu	Pro	Ser	Ala	His	Arg	Leu	Leu	Val	Ala	Thr	Val	Cys
				230					235					240
Thr	Gln	Phe	Gly	Leu	Trp	Thr	Pro	His	Tyr	Leu	Ile	Leu	Leu	Gly
				245					250					255
His	Thr	Gly	Ile	Ile	Ser	Arg	Gly	Lys	Pro	Val	Asp	Ala	His	Tyr
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Leu	Gly	Leu	Leu	His	Phe	Val	Lys	Asp	Phe	Ser	Lys	Leu	Leu	Ala
				275					280					285
Phe	Ser	Ser	Ser	Phe	Val	Thr	Pro	Leu	Leu	Tyr	Arg	Tyr	Met	Asn
				290					295					300
Gln	Ser	Phe	Pro	Ser	Lys	Leu	Gln	Arg	Leu	Met	Lys	Lys	Leu	Pro
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PC-0044 CIP

Cys Gly Asp Arg His Cys Ser Pro Asp His Met Gly Val Gln Gln
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Val Leu Ala

<210> 4
<211> 396
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2488822CD1

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Phe Gln Tyr Cys Gly Tyr Ala Pro His Val Arg Ser Cys Lys Pro
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Asn Thr Asp Gly Ile Ser Ser Leu Glu Asn Leu Leu Ala Ser Ile
35 40 45
Ile Gln Arg Val Phe Val Trp Val Val Ser Ala Val Thr Cys Phe
50 55 60
Gly Asn Ile Phe Val Ile Cys Met Arg Pro Tyr Ile Arg Ser Glu
65 70 75
Asn Lys Leu Tyr Ala Met Ser Ile Ile Ser Leu Cys Cys Ala Asp
80 85 90
Cys Leu Met Gly Ile Tyr Leu Phe Val Ile Gly Gly Phe Asp Leu
95 100 105
Lys Phe Arg Gly Glu Tyr Asn Lys His Ala Gln Leu Trp Met Glu
110 115 120
Ser Thr His Cys Gln Leu Val Gly Ser Leu Ala Ile Leu Ser Thr
125 130 135
Glu Val Ser Val Leu Leu Leu Thr Phe Leu Thr Leu Glu Lys Tyr
140 145 150
Ile Cys Ile Val Tyr Pro Phe Arg Cys Val Arg Pro Gly Lys Cys
155 160 165
Arg Thr Ile Thr Val Leu Ile Leu Ile Trp Ile Thr Gly Phe Ile
170 175 180
Val Ala Phe Ile Pro Leu Ser Asn Lys Glu Phe Phe Lys Asn Tyr
185 190 195
Tyr Ala Pro Asn Gly Val Cys Phe Pro Leu His Ser Glu Asp Thr
200 205 210
Glu Ser Ile Gly Ala Gln Ile Tyr Ser Val Ala Ile Phe Leu Gly
215 220 225
Ile Asn Leu Ala Ala Phe Ile Ile Ile Val Phe Ser Tyr Gly Ser
230 235 240
Met Phe Tyr Ser Val His Gln Ser Ala Ile Thr Ala Thr Glu Ile
245 250 255
Arg Asn Gln Val Lys Lys Glu Met Ile Leu Ala Lys Arg Phe Phe
260 265 270
Phe Ile Val Phe Thr Asp Ala Leu Cys Trp Ile Pro Ile Phe Val
275 280 285
Val Lys Phe Leu Ser Leu Leu Gln Val Glu Ile Pro Gly Thr Ile
290 295 300
Thr Ser Trp Val Val Ile Phe Ile Leu Pro Ile Asn Ser Ala Leu
305 310 315
Asn Pro Ile Leu Tyr Thr Leu Thr Thr Arg Pro Phe Lys Glu Met
320 325 330
Ile His Arg Phe Trp Tyr Asn Tyr Arg Gln Arg Lys Ser Met Asp
335 340 345
Ser Lys Gly Gln Lys Thr Tyr Ala Pro Ser Phe Ile Trp Val Glu
350 355 360
Met Trp Pro Leu Gln Glu Met Pro Pro Glu Leu Met Lys Pro Asp
365 370 375
Leu Phe Thr Tyr Pro Cys Glu Met Ser Leu Ile Ser Gln Ser Thr

0935586.052804

Arg Leu Asn Ser Tyr Ser 380 385 390
395

<210> 5
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<212> PRT
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<220>
<221> misc_feature
<223> Incyte ID No: 2705201CD1

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Ala Ser Thr Ser Arg Gly Cys Gly Leu Asp Leu Leu Pro Gln Tyr
35 40 45
Val Ser Leu Cys Asp Leu Asp Ala Ile Trp Gly Ile Val Val Glu
50 55 60
Ala Val Ala Gly Ala Gly Ala Leu Ile Thr Leu Leu Leu Met Leu
65 70 75
Ile Leu Leu Val Arg Leu Pro Phe Ile Lys Glu Lys Glu Lys Lys
80 85 90
Ser Pro Val Gly Leu His Phe Leu Phe Leu Leu Gly Thr Leu Gly
95 100 105
Leu Phe Gly Leu Thr Phe Ala Phe Ile Ile Gln Glu Asp Glu Thr
110 115 120
Ile Cys Ser Val Arg Arg Phe Leu Trp Gly Val Leu Phe Ala Leu
125 130 135
Cys Phe Ser Cys Leu Leu Ser Gln Ala Trp Arg Val Arg Arg Leu
140 145 150
Val Arg His Gly Thr Gly Pro Ala Gly Trp Gln Leu Val Gly Leu
155 160 165
Ala Leu Cys Leu Met Leu Val Gln Val Ile Ile Ala Val Glu Trp
170 175 180
Leu Val Leu Thr Val Leu Arg Asp Thr Arg Pro Ala Cys Ala Tyr
185 190 195
Glu Pro Met Asp Phe Val Met Ala Leu Ile Tyr Asp Met Val Leu
200 205 210
Leu Val Val Thr Leu Gly Leu Ala Leu Phe Thr Leu Cys Gly Lys
215 220 225
Phe Lys Arg Trp Lys Leu Asn Gly Ala Phe Leu Leu Ile Thr Ala
230 235 240
Phe Leu Ser Val Leu Ile Trp Val Ala Trp Met Thr Met Tyr Leu
245 250 255
Phe Gly Asn Val Lys Leu Gln Gln Gly Asp Ala Trp Asn Asp Pro
260 265 270
Thr Leu Ala Ile Thr Leu Ala Ala Ser Gly Trp Val Phe Val Ile
275 280 285
Phe His Ala Ile Pro Glu Ile His Cys Thr Leu Leu Pro Ala Leu
290 295 300
Gln Glu Asn Thr Pro Asn Tyr Phe Asp Thr Ser Gln Pro Arg Met
305 310 315
Arg Glu Thr Ala Phe Glu Glu Asp Val Gln Leu Pro Arg Ala Tyr
320 325 330
Met Glu Asn Lys Ala Phe Ser Met Asp Glu His Asn Ala Ala Leu
335 340 345
Arg Thr Ala Gly Phe Pro Asn Gly Ser Leu Gly Lys Arg Pro Ser
350 355 360
Gly Ser Leu Gly Lys Arg Pro Ser Ala Pro Phe Arg Ser Asn Val
365 370 375
Tyr Gln Pro Thr Glu Met Ala Val Val Leu Asn Gly Gly Thr Ile
380 385 390

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PC-0044 CIP

Pro Thr Ala Pro Pro Ser His Thr Gly Arg His Leu Trp
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<210> 6
<211> 807
<212> PRT
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<220>
<221> misc_feature
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Ile Ala Thr Lys Asp Val Ile Val His Pro Leu Pro Leu Lys Leu
20 25 30
Asn Ile Met Val Asp Pro Leu Glu Ala Thr Val Ser Cys Ser Gly
35 40 45
Ser His His Ile Lys Cys Cys Ile Glu Glu Asp Gly Asp Tyr Lys
50 55 60
Val Thr Phe His Met Gly Ser Ser Ser Leu Pro Ala Ala Lys Glu
65 70 75
Val Asn Lys Lys Gln Val Cys Tyr Lys His Asn Phe Asn Ala Ser
80 85 90
Ser Val Ser Trp Cys Ser Lys Thr Val Asp Val Cys Cys His Phe
95 100 105
Thr Asn Ala Ala Asn Asn Ser Val Trp Ser Pro Ser Met Lys Leu
110 115 120
Asn Leu Val Pro Gly Glu Asn Ile Thr Cys Gln Asp Pro Val Ile
125 130 135
Gly Val Gly Glu Pro Gly Lys Val Ile Gln Lys Leu Cys Arg Phe
140 145 150
Ser Asn Val Pro Ser Ser Pro Glu Ser Pro Ile Gly Gly Thr Ile
155 160 165
Thr Tyr Lys Cys Val Gly Ser Gln Trp Glu Glu Lys Arg Asn Asp
170 175 180
Cys Ile Ser Ala Pro Ile Asn Ser Leu Leu Gln Met Ala Lys Ala
185 190 195
Leu Ile Lys Ser Pro Ser Gln Asp Glu Met Leu Pro Thr Tyr Leu
200 205 210
Lys Asp Leu Ser Ile Ser Ile Gly Lys Ala Glu His Glu Ile Ser
215 220 225
Ser Ser Pro Gly Ser Leu Gly Ala Ile Ile Asn Ile Leu Asp Leu
230 235 240
Leu Ser Thr Val Pro Thr Gln Val Asn Ser Glu Met Met Thr His
245 250 255
Val Leu Ser Thr Val Asn Ile Ile Leu Gly Lys Pro Val Leu Asn
260 265 270
Thr Trp Lys Val Leu Gln Gln Gln Trp Thr Asn Gln Ser Ser Gln
275 280 285
Leu Leu His Ser Val Glu Arg Phe Ser Gln Ala Leu Gln Ser Gly
290 295 300
Asp Ser Pro Pro Leu Ser Phe Ser Gln Thr Asn Val Gln Met Ser
305 310 315
Ser Met Val Ile Lys Ser Ser His Pro Glu Thr Tyr Gln Gln Arg
320 325 330
Phe Val Phe Pro Tyr Phe Asp Leu Trp Gly Asn Val Val Ile Asp
335 340 345
Lys Ser Tyr Leu Glu Asn Leu Gln Ser Asp Ser Ser Ile Val Thr
350 355 360
Met Ala Phe Pro Thr Leu Gln Ala Ile Leu Ala Gln Asp Ile Gln
365 370 375
Glu Asn Asn Phe Ala Glu Ser Leu Val Met Thr Thr Thr Val Ser
380 385 390
His Asn Thr Thr Met Pro Phe Arg Ile Ser Met Thr Phe Lys Asn

09895630.06301

Asn	Ser	Pro	Ser	395	Gly	Gly	Glu	Thr	Lys	400	Cys	Val	Phe	Trp	Asn	Phe	405
				410						415							420
Arg	Leu	Ala	Asn	425	Asn	Thr	Gly	Gly	Trp	430	Asp	Ser	Ser	Gly	Cys	Tyr	435
Val	Glu	Glu	Gly	440	Asp	Gly	Asp	Asn	Val	445	Thr	Cys	Ile	Cys	Asp	His	450
Leu	Thr	Ser	Phe	455	Ser	Ile	Leu	Met	Ser	460	Pro	Asp	Ser	Pro	Asp	Pro	465
Ser	Ser	Leu	Leu	470	Gly	Ile	Leu	Leu	Asp	475	Ile	Ile	Ser	Tyr	Val	Gly	480
Val	Gly	Phe	Ser	485	Ile	Leu	Ser	Leu	Ala	490	Ala	Cys	Leu	Val	Val	Glu	495
Ala	Val	Val	Trp	500	Lys	Ser	Val	Thr	Lys	505	Asn	Arg	Thr	Ser	Tyr	Met	510
Arg	His	Thr	Cys	515	Ile	Val	Asn	Ile	Ala	520	Ala	Ser	Leu	Leu	Val	Ala	525
Asn	Thr	Trp	Phe	530	Ile	Val	Val	Ala	Ala	535	Ile	Gln	Asp	Asn	Arg	Tyr	540
Ile	Leu	Cys	Lys	545	Thr	Ala	Cys	Val	Ala	550	Ala	Thr	Phe	Phe	Ile	His	555
Phe	Phe	Tyr	Leu	560	Ser	Val	Phe	Phe	Trp	565	Met	Leu	Thr	Leu	Gly	Leu	570
Met	Leu	Phe	Tyr	575	Arg	Leu	Val	Phe	Ile	580	Leu	His	Glu	Thr	Ser	Arg	585
Ser	Thr	Gln	Lys	590	Ala	Ile	Ala	Phe	Cys	595	Leu	Gly	Tyr	Gly	Cys	Pro	600
Leu	Ala	Ile	Ser	605	Val	Ile	Thr	Leu	Gly	610	Ala	Thr	Gln	Pro	Arg	Glu	615
Val	Tyr	Thr	Arg	620	Lys	Asn	Val	Cys	Trp	625	Leu	Asn	Trp	Glu	Asp	Thr	630
Lys	Ala	Leu	Leu	635	Ala	Phe	Ala	Ile	Pro	640	Ala	Leu	Ile	Ile	Val	Val	645
Val	Asn	Ile	Thr	650	Ile	Thr	Ile	Val	Val	655	Ile	Thr	Lys	Ile	Leu	Arg	660
Pro	Ser	Ile	Gly	665	Asp	Lys	Pro	Cys	Lys	670	Gln	Glu	Lys	Ser	Ser	Leu	675
Phe	Gln	Ile	Ser	680	Lys	Ser	Ile	Gly	Val	685	Leu	Thr	Pro	Leu	Leu	Gly	690
Leu	Thr	Trp	Gly	695	Phe	Gly	Leu	Thr	Thr	700	Val	Phe	Pro	Gly	Thr	Asn	705
Leu	Val	Phe	His	710	Ile	Ile	Phe	Ala	Ile	715	Leu	Asn	Val	Phe	Gln	Gly	720
Leu	Phe	Ile	Leu	725	Leu	Phe	Gly	Cys	Leu	730	Trp	Asp	Leu	Lys	Val	Gln	735
Glu	Ala	Leu	Leu	740	Lys	Phe	Ser	Leu		745	Ser	Arg	Trp	Ser	Ser	Gln	750
His	Ser	Lys	Ser	755	Thr	Ser	Leu	Gly	Ser	760	Ser	Thr	Pro	Val	Phe	Ser	765
Met	Ser	Ser	Pro	770	Ile	Ser	Arg	Arg	Phe	775	Asn	Asn	Leu	Phe	Gly	Lys	780
Thr	Gly	Thr	Tyr	785	Asn	Val	Ser	Thr	Pro	790	Glu	Ala	Thr	Ser	Ser	Ser	795
Leu	Glu	Asn	Ser	800	Ser	Ser	Ala	Ser	Ser		Leu	Leu	Asn				

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<211> 1819

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1258981CB1

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<211> 2138

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1459432CB1

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<210> 9

<211> 1878

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2214673CB1

<400> 9

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<210> 10

<211> 1804

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2488822CB1

<400> 10

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<210> 11

<211> 1515

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705201CB1

<400> 11

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<210> 12
 <211> 2919
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3036563CB1

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<210> 13
 <211> 232
 <212> DNA

$\langle 220 \rangle$

<223> Incyte ID No: 1258981H1

 $\langle 220 \rangle$

<222> 79, 87, 90, 149, 162, 189, 199, 202, 205, 218

<223> a, t, c, g, or other

<400> 13

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tcgccaacag	ccaggtgatg	ggcagtgcn	actcgaccct	gngggctgaa	gacatgtact	180
cgccccagng	ccaccagng	gncanaccgc	cgaaagangg	caagaactct	ct	232

<210> 14

<211> 516

<212> DNA

<213> Homo sapiens

 $\langle 220 \rangle$

<221> misc feature

<223> Incyte ID No: 1442823R1

<400> 14

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gcgctgccca	gccaccaccc	cgagaacact	atttggtctg	agtgtgaccg	ccgagggtgat	180
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tcagggccct	ccccaaatcc	gaccgcctct	cctcgccacc	gctgactcag	tcccacacgt	420
aggggtttct	aaagacactga	cagtctcttc	cgtctttcgg	cggtgtggcg	cctggtgggt	480
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<210> 15

<211> 268

<212> DNA

<213> Homo sapiens

 $\langle 220 \rangle$

<221> misc feature

<223> Incyte ID No: 1962119T6

<400> 15

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accgccgagg	tgatcctggc	aggaggctgg	ggttggtcc	tcgactccac	aaacactgag	180
gagtgggttg	ggacacccat	gacaccacc	caaacactgg	cagagaggga	ggcccttcca	240
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<210> 16

<211> 246

<212> DNA

<213> Homo sapiens

 $\langle 220 \rangle$

<221> misc feature

<223> Incyte ID No: 2059242R6

<400> 16

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atacat 246

<210> 17
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SATA01180F1

<220>
<221> unsure
<222> 50, 52, 56, 66, 233, 272, 296
<223> a, t, c, g, or other

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<210> 18
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<220>
<221> unsure
<222> 41, 51, 88-89, 105, 127-128, 173, 176, 200-201, 208, 217-218, 221, 223,
229-230, 235-236, 239, 251, 260, 270, 274, 277, 280, 295, 307-308, 313-314,
325, 339, 359, 362-363, 368, 376, 380, 382, 391, 405-406, 409, 414-416,
435-436, 441, 448-449, 455, 457, 459
<223> a, t, c, g, or other

<400> 18
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gcttggnnca gcnctgtgt tggcngctaa agccctggng taagaatggg gtctttgtng 360
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<210> 19
<211> 631
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> unsure
<222> 229, 240, 341, 411, 445, 465-466, 469, 477, 491-492, 499-500, 505, 510,
517-518, 522, 524-525, 539-540, 545, 547-548, 551, 563-564, 567, 570, 572-573,
578-579, 585, 592, 605, 607, 627-628
<223> a, t, c, g, or other

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<210> 20
<211> 223
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 1459432H1

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tctctttccac gaagttccgg aagccctctg tggccaccct ggtgatctgc ctctgtggg 180
ccctctcctt catcagcatc acccctgtgt ggctgtatgc cag 223

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<210> 21
<211> 475
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 1459432R1

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gctggattag tgactgagca aatgtgcccc gtggagagaa tgtcaccaga gctgcaaaaag 180
ccccccgacc ccagctttta ttagttttta gacccccaac cacacccacc ccaggctctcc 240
ttgttttcag taagcagacc tcctagcaaaa ctgggctttt actcctgtgg gctcagtgcc 300
acatcccttc aaataaacat gcacccctca gagcaaaaagg gaaattgaca ggatgctgga 360
acgccgagag atgggatgct ttatcttcca ttatccacca gcttgggaga aaggccacct 420
tcacatgcac cagtgaagag cgggaaagag cgatcggggc ctttcccgtc tctca 475

```

```

<210> 22
<211> 336
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1459432X12

```

```

<400> 22
gtccgggact ggaacctcgc tgctgccac tgggtcccaac gccagcaaca cctctgatgg 60
ccccgataac ctcaactcgg caggatcacc tctctgcacg gggagcatct cctacatcga 120
catcatcatg ccttcgggtg tcggcaccat ctgcctcctg ggcacatcgc ggaactccac 180
ggatcatctc gcggtcgtga agaagtccaa gctgcactgg tgcaacaacg tccccgacat 240
cttcatcatc aacctctcgg tagtagatct cctctttctc ctgggcatgc ccttcgtgat 300
ccacaagctc atgggcaatg ggggtgtggca ctttgg 336

```

```

<210> 23
<211> 478

```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3001554F6

<400> 23
gagaatgtca ccagagctgc aaaatctccc cgaccccagc ttttattagt ttttaagaccc 60
ccaaccacac ccaccccagg tctccttggt ttcagtaagc agacctccta gcaaactggg 120
cttttactcc tgtggggtca gtgccacatc ccctcaaata aacatgcatc ctctagagca 180
aaagggagat tgacaggatg ctggaacgcc gagagatggg atgctttatt tttcattatc 240
caccagcttg ggagaaaggc caccttccat cgcaccagtg agaggcggga aagagcgatc 300
gggccctttc ccgtctctca ggccttggtc aacatggccc tggctgctca ctccagccct 360
gcctgacttt aaacaaaccc agtcagtacc cttccacctc ttgccttggg aagaagacat 420
ttgagagctc acagatatag tgcaaccggg tatccaaacc aacatgttct cttgctca 478

<210> 24
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SAAC00257R1

<220>
<221> unsure
<222> 14
<223> a, t, c, g, or other

<400> 24
tccccaaagt gccncacccc attgcccatg agctgggtgga tcatgaaggg catgccccagg 60
agaaagagga gatctactac cgagagggtg atgatgaaga tgtcggggac gttgttgac 120
cagtgcagct tggacttctt cacgaccgag aagatgaccg tggagttccc gatgatgcc 180
aggaggcaga tgggtgccga caccgaaggc atgatgatgt tgatgttaga gatgctcccc 240
gtgcgaggag gtgatcctgc cgaagtgagg ttatcgggg 279

<210> 25
<211> 519
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SAAB00250R1

<400> 25
ggcacttttg ggagaccatg tgcaccctca tcacggccat ggatgccaat agtcagttca 60
ccagcaccta catcctgacc gccatggcca ttgaccgcta cctggccact gtccacccca 120
tctcttccac gaagttccgg aagccctctg tggccaccct ggtgatctgc ctctgtggg 180
ccctctcctt catcagcatc acccctgtgt ggctgtatgc cagactcatc cccctcccag 240
gaggtgcagt gggctgcggc atacgcctgc ccaacccaga cactgacctc tactggttca 300
ccctgtacca gtttttcttg gcctttgccc tgcttttagt ggtcatcaca gccgcatacg 360
tgaggatcct gcagcgcagt acgtcctcag tggcccccg cccccagcgc agcatccggc 420
tgccgacaaa gaggggtgacc cgcacagcca tcgccatctg tctggtcttc tttgtgtgct 480
gggcacccta ctatgtgcta cagctgaccc agttgtcca 519

<210> 26
<211> 535
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SAAB00523R1

PC-0044 CIP

<220>
<221> unsure
<222> 113, 130-132, 134, 482, 530
<223> a, t, c, g, or other

<400> 26
ggcgggaaag agcgatcggg ccctttcccg tctctcaggg cttgtgcaac atggccctgg 60
ctgctcactc cagccctgcc tgactttaaa caaacccagt cagtaccctt ccncctcttg 120
ccttgggaan nngncatttg agagctcaca gatatagtg caccgggttat ccaaaccaac 180
atgttctctt gctcagcttc tgttctatcc aaaggtctca tcctgctccc ccaaggggat 240
ttctgatata tgaaaacccc aaacctgact ccaggcctcc ccagcaacgt gtgagcccca 300
tggaatgtat ttatttcatt gcaacaaccc ctcaacaacc ggccttcctg catttcccga 360
gcggtcttgg gtttttctca gcatctctcc cgggtggcgtg ttgtggtgcc ctgacttggg 420
ggtgtgcagg gtggcagggg aagtatcagg tgccttgctt tctggcctct ctcgtcagcc 480
gnctgagcgt tgctgacagc gcgagtggcc ctgggtgcag gcttaacgan agctg 535

<210> 27
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2214673H1

<400> 27
cctcaccaga gctctggtgg ccacctctgt cccgccatgc tgctcaccga cagtggccag 60
ggccacacag accaagaggc ttggggccaca aagtaaaggg tcgcggaacct cgccggccgc 120
catgtggagc tgcagctggt tcaacggcac agggctggtg gaggagctgc ctgectgcca 180
ggacctgcag ctggggctgt cactgttgtc gctgctgggc ctggtggtgg gcgtgccagt 240
gggcctgtgc tacaa 255

<210> 28
<211> 363
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3073644H1

<400> 28
cagcaagctc caacggctga tgaaaaagct gccctgcggg ggccggcact gctccccgga 60
ccacatgggg gtgcagcagg tgctggcgta ggccggccag ccctcctggg gagacgtgac 120
tctggtggac gcagagcact tagttaccct ggacgctccc cacatccttc cagaaggaga 180
cgagctgctg gaagacaagc aggaggggtg tttttcttga agtttccttt ttcccacaaa 240
tgccactctt gggccaaggc tgtggtcccc gtggctggca tctggcttga gtctccccga 300
ggcctgtgcg tctcccaaac acgcagctca aggtccacat ccgcaaaagc ctctctgcct 360
tca 363

<210> 29
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3573501F6

<220>
<221> unsure
<222> 11, 29, 50, 72, 77, 93, 125-126, 131, 139, 144, 156, 176, 184, 214, 216,
246, 250, 252
<223> a, t, c, g, or other

<400> 29

PC-0044 CIP

```
cgcacagctg ngcaggctct caccagagnt ctgggtggcca cctctgtccn ggcatgctgc 60
tcaccgacag tngccanggc ccacagcacc aanaggcttg ggccacaaaag taaagggtcg 120
cggannctcg ncggcccgna tgtngagctg cagctngttc aacggcacag ggctgntgga 180
gganctgcct gcctgccagg acctgcagtg gggntntcac tgttgtcgct gctgggcctg 240
gtggtnngcn tnccagtggg cctgtgctac aacgcctgc t 281
```

<210> 30
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4618526H1

```
<400> 30
gcagggagga cagccccctg gaccgggaca cggggccggct ggagccctcg gcacacaggc 60
tgctgggtggc caccgtgtgc acgcagtttg ggctctggac gccacactat ctgatcctgc 120
tggggcacac ggccatcatc tcgcgagggg agcccgtgga cgcacactac ctggggctac 180
tgcactttgt gaaggatttc tccaaactcc tggccttctc cagcagcttt gtgacacc 238
```

<210> 31
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4857037H1

```
<400> 31
tttctccaaa ctctctggcct tctccagcag ctttgtgaca ccacttctct accgctacat 60
gaaccagagc ttccccagca agctccaacg gctgatgaaa aagctgccct gcggggaccg 120
gcactgctcc ccggaccaca tgggggtgca gcaggtgctg gcgtaggcgg cccagccctc 180
ctggggagac gtgactctgg tggacgcaga gcacttagtt accctggacg ctccccacat 240
ccttccagaa ggagacgag 259
```

<210> 32
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5025086H1

```
<400> 32
cttcgtgtgg ggtggcgcgc tgctgaccag cttctcctcg ctgctcttct acatctgcag 60
ccatgtgtcc acccgcgcgc tagagtgcgc caagatgcag aacgcagaag ctgccgacgc 120
cacgctgggtg ttcacgggct acgtgggtgcc agcactggcc accctctacg cgctgggtgct 180
actctcccgc gtccgcaggg aggacacgcc cctggaccgg gacacggggc ggctggagcc 240
ctcggcacac aggctgctgg tggccaccgt gtgca 275
```

<210> 33
<211> 563
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1482004T1

<220>
<221> unsure
<222> 3, 97, 99
<223> a, t, c, g, or other

```

<400> 33
ttntgtttat ttatatctt tagttttgtg cacactttga ggaattgatt taggacaggt 60
tcatactgaa aaaaacctca gctgatgtta tctgtgngng ctggggaggg tgtcagggac 120
atttgggtggc tgaggagagc gcgtcactgc tattgaatag ctccatttaa caccagccat 180
gtctccgcgt ctcaggcact tctgtgaaat gttctcagaa ccctgtggtg actgcggcac 240
accggcagg ccttgctagc acacgccgcc cactggcagg gcccgccac cctggctgtt 300
gccattcttt cgtagggttt tgttcatttt actatttgc atttttctag gaaacatctg 360
tttttgtaaa acaacaagg gggaatcaag tattttaacc acaaagtata aatactggct 420
ctaagctttc atcacttcat tgacaaactg aatgctgagg aggctgaagg cgaggaggct 480
tttgcggtg tggaccttga gctgcgtgtt tgggagacgc acaggcctcg gggagactca 540
agccagatgc cagccacggg gct
563

```

```

<210> 34
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 153210R6

```

```

<220>
<221> unsure
<222> 14, 156, 277
<223> a, t, c, g, or other

```

```

<400> 34
gtcatttgca tgcnacctta tatcaggtct gagaacaagc tgtatgccat gtcaatcatt 60
tctctctgct gtgccgactg cttaatggga atatatttat tctgtatcgg aggccttgac 120
ctaaagtttc gtggagaata caataagcat gcgcantgtg gatggagagt actcattgtc 180
agcttgtagg atctttggcc attctgtcca cagaagtatc agttttactg ttaacatttc 240
tgacattgga aaaatacatc tgcattgtct atccttntag atgtgtgaga cctggaaaat 300
gcagaacaat tacagttctg attctcattt ggattactgg ttttatagtg gtttcattcc 360
attgagcaat aaggaatttt tcaaaaacta ctatggcacc aatggagtat gcttcctctc 420
tcattcagaa gatacagaaa gtattggagc ccagatttat tcagt
466

```

```

<210> 35
<211> 230
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2488822H1

```

```

<220>
<221> unsure
<222> 43
<223> a, t, c, g, or other

```

```

<400> 35
ctttgacctt aagtttcgtg gagaatacaa taagcatgcg cantgtggat ggagagtact 60
cattgtcagc ttgtaggatc ttggccatt ctgtccacag aagtatcagt tttactgtta 120
acatttctga cattggaaaa atacatctgc attgtctatc cttttagatg tgtgagacct 180
ggaaaatgca gaacaattac agttctgatt ctcatcttga ttactggttt
230

```

```

<210> 36
<211> 483
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3558664T6

```

```

<220>

```

PC-0044 CIP

<221> unsure
<222> 152-193, 334, 447
<223> a, t, c, g, or other

<400> 36
tcttgctgat gcacatgaca ggtaaagctc tacttttaaac taggaactgc agatggactt 60
tgtatagtct tttgtcatta aacaccatct acagattgaa aggttctgca ctgtctactt 120
ccaggactat attgcaatgc tatgcacata gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180
nnnnnnnnnn nnnngttactg aagtagatgtt ctcttaattt cttatgcaaa atgtctacta 240
atatatatac attattgata taattacttc ctttgtaag agcattagtc attttttattt 300
ttcctcatgt ccttgtaaaa tatttatctt agcnattatt ataaattaat tttgtgggat 360
tcatttcata ccagtaaatc cctcatgaag cccccccaca gtattctctg cgaagaaatg 420
aatttcagag tcagtcatga atagganttg agtctcgttg attgaggaat cagtgcacatt 480
tca 483

<210> 37
<211> 612
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2488822X308B1

<220>
<221> unsure
<222> 561
<223> a, t, c, g, or other

<400> 37
ggggtatgtg aaaaggtccg gctccattaa ctcaggtggc atctcctgca gtggccacat 60
ttccaccag atgaatgatg gagcatatgt tttctgacct ttgctgtcca tagattttct 120
ttgtctgtag ttataccaaa accgatgaat catttcttta aatggctctg tggtcagagt 180
atagagaatt ggggttcaaag cactgttaat gggcagaata aaaatcacta cccaagaggt 240
tatggtacct ggtatttcta cctgaagcag tgaaagaaat ttactacaa aaatgggtat 300
ccagcataat gcatcagtaa atactataaa gaaaaaacgt ttggcaagga tcatctcttt 360
tttaacttga ttccgtattt cagttgctgt tatggcactt tgatgaacac tataaaacat 420
gcttccatag gaaaaaactg tgatgataaa tgcggccaaa ttaataccaa gaaaaattgc 480
cactgaataa atctggggct ccaatacttt ctgtatcttc tgaatgaaga gggaagcata 540
ctccattggt gccatagtag ntttgaaaaa ttccttattg ctcaatggaa tgaaagccac 600
ttttaaacca gt 612

<210> 38
<211> 562
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2488822X310D1

<220>
<221> unsure
<222> 311, 359, 446, 454, 509, 556
<223> a, t, c, g, or other

<400> 38
agagtaagtg ttaactaaaa gcattttatt aaattgtcct tcacagaaac tcaattttatt 60
aaaccatgta taatacatgt tcctttgatt gattattaat ttgatatttt tagcagccta 120
gaaggggattg aaatttcaaa tatccaacaa aggatgttta gacctcttat gaatctctct 180
cacatatatt ttaagaaatt ccagtactgt gggatgacac cacatgttcg cagctgtaaa 240
ccaaacactg atggaatttc atctctagag aatctcttgg caagcattat tcagagagta 300
tttgtctggg ntgtatctgc agttacctgc tttggaaaca tttttgtcat ttgcatgcna 360
ccttatatca ggtctgagaa caagctgtat gccatgtcaa tcatttctct ctgctgtgcc 420
gactgcttaa tggggatata tttatncgtg atcngaggct ttgacctaaa gtttcgtgga 480
gaatacaata agcatgcgcc tgtgggatng agagtactca ttgtcagctt gtaggatctt 540

tggccattcc tgccncagg ag

562

<210> 39

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705201H1

<400> 39

```

accatctgct ctgtccgccg cttcctctgg ggcgtcctct ttgcgctctg cttctcctgc 60
ctgctgagcg aggcattggcg cgtgcggagg ctggtgcggc atggcacggg ccccgcgggc 120
tggcagctgg tgggcctggc gctgtgcctg atgctggtgc aagtcacat cgctgtggag 180
tggctggtgc tcaccgtgct gcgtgacaca aggccagcct gcgcctacga gcccatggac 240
tttgtgatgg cctcatcta                                     260

```

<210> 40

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3141184H1

<400> 40

```

cttccacgcc atccctgaga tccactgcac cttcttgcca gccctgcagg agaacacgcc 60
caactacttc gacacgtcgc agcccaggat gcgggagacg gccttcgagg aggacgtgca 120
gctgccgcgg gcctatatgg agaacaaggc cttctccatg gatgaacaca atgcagctct 180
ccgaacagca ggatttccca acggcagctt gggaaaaaga cccagtggca gcttggggaa 240
aagaccagc gtcctgttta gaag                                     264

```

<210> 41

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 384797R6

<220>

<221> unsure

<222> 433, 497

<223> a, t, c, g, or other

<400> 41

```

cgtgcagctg ccgcgggcct atatggagaa caaggccttc tccatggatg aacacaatgc 60
agctctccga acagcaggat ttcccaacgg cagcttggga aaaagaccca gtggcagctt 120
ggggaaaaaga cccagcgctc cgtttagaag caacgtgtat cagccaactg agatggccgt 180
cgtgctcaac ggtgggacca tcccaactgc tccgccaagt cacacaggaa gacaccttg 240
gtgaaaagact ttaagttoca gagaatcaga atttctctta ccgatttgcc tccctggctg 300
tgtctttctt gagggagaaa tcggtaacag ttgccgaacc aggccgcctc acagccagga 360
aattttgaaa tcctagccaa ggggatttcg tgtaaattgt aacactgacg aactgaaaag 420
ctaacaccga ctnccgcccc tcccttgcca cacacacaga cacgtaatac agaccaacct 480
caatcccgcga attcganggg gggcc                                     505

```

<210> 42

<211> 606

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705201X325F1

<220>

<221> unsure

<222> 41, 112, 126, 135, 232, 235, 319, 327, 329, 333, 342, 350, 352, 356, 359-360, 375-376, 379, 384, 388, 391-392, 394, 403, 405-406, 418, 426, 437, 453, 462-463, 475, 479-480, 485-486, 495, 500, 502, 510, 529, 541, 545-546, 549, 557, 559, 562, 565, 568, 571-572, 577, 583, 589-590, 596

<223> a, t, c, g, or other

<400> 42

```
gtaggctgggt gcggcatggc acggggccccc cgggctggca nctgggtgggc ctggcgctgt 60
gcctgatgct ggtgcaagtc atcctcctgt ggagtggctg gtgctcaccg tncctgctga 120
cacaangcca gcctncgcct acgagcccat ggactttgtg atggccctca tctaccgacat 180
ggtaactgctt gtgggtcaccc tggggctggc cctcttcact ctgtgctggc anttnaagag 240
gtggaagctt aacggggctt cctcctcatc acagccttcc tctctgtgct catctgggtg 300
gcctggatga ccatgtacnt ttccggnant ttnaacctgc anagggggan cntttnaann 360
acccacttg gctannaant ttgncggnaa nngntgggtt ttnannatct tccatgcntc 420
cttganacca atgcacnttt tgccaaccct tanggagaac annccaaact acttngaann 480
tcccncccca tgttngggan anggccttcn caggaggaat tttatcttnc gcggggctaa 540
nttgnaana aggcttncnc antgnttnaa nnaattnagc ttncggaann cagggnnttc 600
caaacg 606
```

<210> 43

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1262948X325F1

<220>

<221> unsure

<222> 7, 220, 310, 320, 409, 420, 446, 469, 474, 485, 488, 491, 495, 513, 519, 530, 533, 545, 555, 561, 568, 588, 591, 594, 601, 611, 614, 625, 638, 647

<223> a, t, c, g, or other

<400> 43

```
gaacagnctt ggagcgtcgg cgctgcgggg cgcggggggt cgaatgttcg tggcatcaga 60
gagaaagatg agagctcacc aggtgctcac ctctcctctg ctcttcgtga tcacctcggt 120
ggcctctgaa aacgccagca catcccagg ctgtgggctg gacctcctcc ctacgtacgt 180
gtccctgtgc gacctggacg ccatctgggg cattgtggtt gaggcggtgg ccggggcggg 240
cgccctgatc acactgctcc tgatgctcat cctcctgggt cggctgccct tcaaggagaa 300
ggagaagaa ggccctgtgn gctccacttt ctgttctcc tggggaacct ggggcctctt 360
tggggctgac gtttcttcca tcatccagga agacgagacc aatctgctnc tgttccggcn 420
gcttctcttt ggggggttct cttttnggct cttgctttct tcttgcttnc ttangcaagg 480
caatngcncc nttcngaagc ttggttccgg cantggcang gggcccccnn ggnntgtcaa 540
acttnttggg cttgncgcct ntccctnaa agcttgggtc aaataatnat nccntttgaa 600
nttgcttggg ntcnaccctt tttntttaa aaaaggcnaa ctttgcncctt aaaaa 655
```

<210> 44

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3036563H1

<400> 44

```
gtcacctgta tctgtgacca cctaacatca ttctccatcc tcatgtcccc tgactcccca 60
gatcctagtt ctctcctggg aatactcctg gatattatct cttatgttgg ggtgggcttt 120
tccatcttga gcttggcagc ctgtctagtt gtggaagctg tgggtgtggaa atcggtgacc 180
aagaatcgga cttcttatat gcgccac 207
```

PC-0044 CIP

<210> 45
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4457161H1

<400> 45
atcttgatgg agcagaatca gtactgacag tcaagacctc gaccagggag tggaatggaa 60
cctatcactg cataatttaga tataagaatt catacagtat tgcaacccaaa gacgtcattg 120
ttcacccgct gccttctaaag ctgaacatca tgggtgatcc tttggaagct actgtttcat 180
gcagtgggtc ccatcacatc aagtgcctga tagaggagga tggagactac aaagttactt 240
tccatatggg ttctctcatcc ctcc 264

<210> 46
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZAH00352F1

<400> 46
ctcgaggggtg ttcaaaaact gttgatgtgt gttgtcactt taccaatgct gctaataatt 60
cagtctggag cccatctatg aagctgaatc tggttcctgg ggaaaacatc acatgccagg 120
atcccgtaat aggtgtcgga gagccgggga aagtcattca gaagctatgc cggttctcaa 180
acgttcccag cagccctgag agtcccattg gcgggacccat cacttacaaa tgtgtaggct 240
cccagtggga ggagaagaga aatgactgca tctctgcccc aataaacagt ctgctccaga 300
tggctaaggc tttgatcaag agcccctctc aggatgagat gctccctaca tacctgaagg 360
atctttctat tagcataggg caagcgggaac atgaaatcag ctcttctc 408

<210> 47
<211> 413
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZAH02656F1

<400> 47
ctcgaggggtg ttcaaaaact gttgatgtgt gttgtcactt taccaatgct gctaataatt 60
cagtctggag cccatctatg aagctgaatc tggttcctgg ggaaaacatc acatgccagg 120
atcccgtaat aggtgtcgga gagccgggga aagtcattca gaagctatgc cggttctcaa 180
acgttcccag cagccctgag agtcccattg gcgggacccat cacttacaaa tgtgtaggct 240
cccagtggga ggagaagaga aatgactgca tctctgcccc aataaacagt ctgctccaga 300
tggctaaggc tttgatcaag agcccctctc aggatgagat gctccctaca tacctgaagg 360
atctttctat tagcataggg aaagcgggaac atgaaatcag ctcttctcct ggg 413

<210> 48
<211> 489
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZAH01730F1

<220>
<221> unsure
<222> 341, 393
<223> a, t, c, g, or other

```

<400> 48
ccctccattg tccttctccc aaactaatgt gcagatgagc agcatggtaa tcaagtccag 60
ccacccagaa acctatcaac agagggttgt tttcccatac tttgacctct ggggcaatgt 120
gggtcattgac aagagctacc tagaaaactt gcagtcggat tcgtctattg tcacccatggc 180
tttcccaact ctccaagcca tccttgctca ggatatccag gaaaataact ttgcagagag 240
cttagtgatg acaaccactg tcagccacaa tacgactatg ccattcagga tttcaatgac 300
ttttaagaac aatagccctt caggcggcga aacgaagtgt ngtcttctgg aacttcaggc 360
ttgccaacaa cacagggggg tgggacagca gtnggtgcta tgttgaagaa ggtgatgggg 420
acaatgtcac ctgtatctgt gaccacctaa catcattctc catcctcatg tcccctgact 480
tcccagatc 489

```

```

<210> 49
<211> 87
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: SZA03622F1

```

```

<400> 49
ccaagacaga aggcaatggc tttctgagtg gacctgcttg tttcatgcag aatgaaaacc 60
aaggggtaga acagcattag ggccaat 87

```

```

<210> 50
<211> 116
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: SZA01163F1

```

```

<400> 50
cttctgttcc cgtgtgggtca cgtaggttgg attgtcctgt tcttagttgt gcaacgaaga 60
atgctcttgg atgagttttc cagggatgat ctgggtttctt ctgtgttggg atcgtg 116

```

```

<210> 51
<211> 558
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: SZA02669F1

```

```

<400> 51
cactgtcccc gggaggtcac gtaggttggg ttatcctgtt cttagttgag caacgaagaa 60
gcactggatg agttttccag ggatgagctg gttgcttctg ggggtggaaac attatacgtt 120
cctgttttac caaacaatt gttaaatctc cttgatattg gagaactcat agaaaacaca 180
gggtgtggatg aacccaggga tgtcgacttt gagtgtctgt aagaccatct cgacaatgaa 240
aacttattca gcaaagcttc ctgtaccttc agatcccaga ggcattccaa gagtaaaatg 300
aataatccct ggaagacatt gaggatggca aatatgatat ggaacacaag gtttgtccct 360
gggaacacag tgggtgagacc aaaaccccaa gtgaggccca agagtgggtg gaggacccca 420
atgctcttgc tgatctgaaa caggctgctc ttctcctgct tgcattggct gtctccaatg 480
gaaggcctca ggatcttggt gatgacacaa tagtgatggt tatgttcacc acacaatgat 540
cagtgtctggg atggcaaa 558

```

```

<210> 52
<211> 362
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: SZA00249F1

```

<400> 52
 ctcacccctg gaaaactcat ccagtgtctc ttcgttgctc aactaagaac aggataatcc 60
 aacctacgtg acctcccggtg gacagtggct gtgcttttaa aaagagatgc ttgcaaacia 120
 tgggggaacgt gttctcgggg caggtttccg ggagcagatg ccaaaaagac tttttcatag 180
 agaaggggct ttcttttcta aagacagaat aaaaataatt gttatgtttc tgtttgttcc 240
 ctccccctcc cccttgtgtg ataccacatg tgtatagtat ttaagtgaac ctcaagccct 300
 caaggcccaa cttctctgtc tatatgtaat atagatttcc gagaggcatt ttcacctttt 360
 ac 362

<210> 53
 <211> 615
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <223> Incyte ID No: 702778992H2

<400> 53
 cggggccttc gtgctgtctc ccacggccac ctccattgcc atatgggtgg tgtggattgt 60
 catgtacacg tacggcaaca ggcagcgcaa cagccccacc tgggatgacc ccacgctggc 120
 catcgccctc gccgccaatg cctgggcctt tgtgctcttc tatgtcatcc ctgaggtctc 180
 ccaggtgacc aaggccagcc cagagcaaaag ttaccagggg gacatgtacc ccaccggggg 240
 cgtaggctac gagaccatcc tgaaagagca gaagggccag agtatgtttg tggagaacia 300
 ggcatttttc atggatgagc cagcctcagc taagagaccg gtgtcaccat acagtgggta 360
 caacgggcag ctgctgacca gctgtgtcca gccaccgag atggccctga tgcacaaagg 420
 cccgtccgaa ggagcttacg acgtcatcct cccacgagcc accgccaaca gccaggtgat 480
 gggcagtgcc aactccaccc tgagggccga agacatgggt gcggcccaga gccaccaggc 540
 agccacgcca ccgagagacg gcaagagctc ccaggtcttt agaaaccctt acgtgtggga 600
 ctgagtcggc ggcag 615

<210> 54
 <211> 686
 <212> DNA
 <213> Rattus norvegicus

<220>
 <221> misc_feature
 <223> Incyte ID No: 701938522F6

<400> 54
 accacggcca cctccattgc catctgggtg gtgtggattg tcatgtacac ctacggcaat 60
 aagcagcacc atagccccac ctgggatgac cccacactgg ccattgcgct cgctgccaat 120
 gcctggactt ttgtcttctt ctatgtcatc cctgaggtct cccaagtac caaacccagc 180
 ccagaacaga gctaccaggg ggacatgtac ccgaccgag ggggtgggcta cgagaccatc 240
 ctgaaggagc agacggggcca gagcatgttg tggagaacia ggcattttct atggatgaac 300
 cagcctcagc aaagagaccg gtgtgcgctt acagtggcta caatggtcag ctgctgacca 360
 gctgtacca gccaccgag atggccctga tgcacaaagg cccgtctgaa ggtgcgtacg 420
 acgtcatcct cccacgggcc accgcaacag ccaggtgatg ggcagtgcca actcaaccct 480
 gcgagctgaa gacatgtaca tgggtccagag ccaccaggtg gcacgccaac gaaagacggc 540
 aagatctctc aggatcagtc cccgaaaaat aaaacaagat ggtagatgcc ctcttccttg 600
 gaccgtgacc tctccgtgtg ccattgccaa catggacttt gtcatggcct catttacgta 660
 atgctgctgc tgctggcggc ttccta 686

<210> 55
 <211> 198
 <212> DNA
 <213> Macaca fascicularis

<220>
 <221> misc_feature
 <223> Incyte ID No: 700712581H1

<400> 55
 tggcttgccg cgcggcagcg gctgccaggc tgcccgccga agacccctt cccgactgcg 60
 gggcttgggc tcctggacia ggtggcaggc gctggaggct gccgcagtct gcgtgggtgg 120

PC-0044 CIP

aggggagctc agcttggttg tgggagccgg cgaccgtcac tggctggatg gacctggaag 180
cctcgtgct gccactg 198

<210> 56
<211> 271
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 701250242H1

<400> 56
aagaaatcca agctgcactg gtgcagcaac gtccctgaca tcttcatcat caacctctct 60
gtgggtggatc tgcttttctt gctgggcatg cctttcatga tccaccagct catgggtaat 120
gggtgtctggc actttgggga aacctatgtgc accctcatca cagccatgga cgccaacagt 180
cagttcacca gcacctacat cctgactgct atggccattg accgtactt ggccaccgtc 240
catcccatct cctccaccaa gttccggaag c 271

<210> 57
<211> 304
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701899983H1

<400> 57
ccaccccatc tctccacca agttccggaa gccctccatg gccaccctgg tgatctgcct 60
cctgtggggc ctctccttca tcagtatcac cctgtgtgg ctctacgcca ggctcattcc 120
cttcccaggg ggtgtgtgtg gctgtggcat ccgcctgcc aaccgggaca ctgacctcta 180
ctggttcaact ctgtaccagt ttttcctggc ctttgccctt ccgtttgtgg tcattaccgc 240
cgcatacgtg aaaatactac agcgcattgac gtcttcgggtg gctccagcct cccaacgcag 300
catc 304

<210> 58
<211> 248
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701028051H1

<400> 58
ggcgacctgc accggctgca tggatctgcg aacctcggtg ctgtccactg gcccgaatgc 60
cagcagcatc tccgatggcc aggataatct cacattgccg gggtcacctc ctgcacagg 120
gagtgtctcc tacatcacat cattatgcct tccgtgtctg gtaccatctg tctcctgggc 180
atcgtgggaa actccacggc catctttgct gtcgtgaaga agtccaagct acactgggtg 240
agcaacgt 248

<210> 59
<211> 497
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 075474_Mm.1

<400> 59
gtgacactgc tcatcctgtt caacgtggct tccctgggtg ccatgtactc cactgcactg 60
ctgagccttg actactacat cgagcgtgcc ctgccaccac ctacatggcc agtgtgtaca 120
acaccggca cgtgtgtggc ttcgtctggg gagggcggt gtcaccagc ttctcctccc 180
tgctcttcta catctgcagt cacgtgtctt ctagaatcgc tgagtgtgcc cggatgcaga 240

```

acacggagggc agccgatgct atccttgtgc tcatcggcta cgtggtgcca ggtctggctg 300
tgttgtatgc cctggcactc atctcgagaa tcgggaagga agacacaccc ctggaccagg 360
acaccagcag gctggacccc tcggtgcaca ggctgctggt ggccaccgtg tgcactcagt 420
ttggcctctg gacaccttac tacttgagcc tggggacaca gtgctgacgt cacgggggag 480
gaccgtggag gggcatt                                     497

```

```

<210> 60
<211> 266
<212> DNA
<213> Rattus norvegicus

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 700819903H1

```

```

<400> 60
gtgtgtataca caccggcac gtgtgtgggt tcgtctgggg aggggcagtg ctcaccagct 60
tttcctccct gctcttctat atctgcagtc atgtgtcttc tagaattgcc gagtgtgccc 120
ggatgcagaa cacggaggca gccgacgcca tccttgtgct cattggctac gtggtgccag 180
gtctggctgt gttgtatgcc ctggcactca tctcaaggat tgggaaggaa gacacacccc 240
tggaccagga caccagcagg ctggac                                     266

```

```

<210> 61
<211> 294
<212> DNA
<213> Rattus norvegicus

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 701657796H1

```

```

<400> 61
ggaagacaca cccctggacc aggacaccag caggctggac ccctcagtgc acaggctgct 60
ggtggccact gtgtgcacac agtttggcct ctggacacct tactacctga gcctggggca 120
cacagtgcta gtgtcacggg gaaggaccgt agtggggcat tatctgggca tcctacaggt 180
tgctaaggac ctggcgaaagt tcttggcctt ctcaagcagt tctgtgacgc cgctgctcta 240
ccgttacatc aacaaagcct tccccagcaa gctccggcgc ctggtgaaga agat          294

```

```

<210> 62
<211> 432
<212> DNA
<213> Rattus norvegicus

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 702466096T1

```

```

<400> 62
aatgggaatc cagcacaatt gctatcgggt gaacacaata aagaaaaagc gtttggcgag 60
gatcatctcc ttcttcacct gcttctgtat ttcggtgggt gttatggtgc tttgatgaac 120
actgtaaaac atgcttccat aggagaacac aatgatgata aacgccacca ggtttaatac 180
ctgttttagac catgaagaat attagtagtg tatgctagca ttctcttaag acaaacatgg 240
cttagatgtc actattaaag atcacagagc ccataaagtg gtattcattt attcgtttat 300
ttactctgtg acaaggctctt attgtagagt tcagatgagc cttcaacttg actaggttagc 360
ctaggctgga caccaacatg cagtcctcct gcctcagatt acaaatgtgt accagatctt 420
cctgatctcc at                                     432

```

```

<210> 63
<211> 727
<212> DNA
<213> Macaca fascicularis

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 703021534H1

```

PC-0044 CIP

<400> 63
gagggccagc cccaggggtga ccaccagcag taccatgtcg tagatgaggg ccatcacaaa 60
gtccatgggc tcataggcgc aggcgggcct cgtgtcgcg agcacggtga gcaccagcca 120
ctccacagcg atgatgactt gtaccagcat caggcacagc gccaggccca ccagctgcca 180
gcccgcgggg cccgtgccgt gccgcaccag cctccgcacg cggcacgcoct ggctcagcag 240
gcaggagaag cagagcgcaa agaggacgcc ccagaggaag cggcggacgg agcagatggg 300
ctcgtcctcc tggatgatga aggcgaatgt cagcccgaag agggccaggg tcccaggag 360
gaagagaaag tggaggccca cggggctctt cttctccttc tccttgatga agggcagccg 420
caccaggagg atgagcatca ggagcagtgt gatcagggcg cccgccccgg ccaacggctt 480
caacaagaag tgccccagat ggcgctccagg tcgcacaggg acacgttact gagggacggc 540
aggtccagcc cgcaccctcg ggacgtgctg cgtgttttcag aggccaccga ggtgatcaca 600
aagagcagga ggaagggtgag cacctgggtga gctctcatct ttctctctga tgccacgaac 660
attcgacccc tgcggcccgc agcgccaacg ctccagctgg gcctcggccc gagtcacatc 720
tctgcag 727

<210> 64
<211> 461
<212> DNA
<213> Canis familiaris

<220>
<221> misc_feature
<223> Incyte ID No: 703543565J1

<400> 64
cagagggaca ggagggcagt cgggtgttagc ttttcggttc agcagtgttc acatttacac 60
gaaatcccct tgtgtaggat ttctagatct cccggctgtg aggcagcctt gttcggctac 120
tgttactgat ttctccctca agaaagacac agccaggga taaaatcggg aacgagagat 180
tcttacttct ctggaactta acacagtctt tcaccagagg tgtcttcag tgctaactag 240
gcgagcagt tgggatagtc cctccatcga gcacaacggc catctcagct gggctgacta 300
gacacttgct ctctaaacgg agcgctcggt ctgtttccca agctgccatt gcgacaatcc 360
cgccgttcgg agagctgcat agtgttcac ccatcgagaag gcttcgcttc tccatgtagg 420
tccgtggcag ctgcacgtcc tcttcacaac gcatgtctcc c 461

<210> 65
<211> 278
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 076599_Mm.1

<220>
<221> unsure
<222> 249
<223> a, t, c, g, or other

<400> 65
cgcgggcgcg ctgcagagat gtgacttggg cccagggcca gcaggagcgt cggcgctgcg 60
gggacgcgag ggtcgaatgt tcctgggtgt agagagaaag atgagaacct atcaagtgtt 120
tcccttgccc ctgctcctgg tgattgcctc cgtggcttca gagaacgcca gcacgtcccg 180
gggctgtgga ctggaccttc ttctcagta cgtgtccctg tgcgacctgg acgccatctg 240
gggcatccnt ggtggagggc agtggccggg gcgggggc 278

<210> 66
<211> 561
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701749639H1

<400> 66
gagggcgctg tgtgcctcca ctctctcttc ctgctgggga ccttgggcct ctttggcctg 60

```

acgttttgctt tcatcatccg gatggacgag acaatctgct ccatccgacg cttectctgg 120
gggtgctctct tcgcactctg cttttcctgc ctgctgagcc aggcgtggcg ggtacggagg 180
ctgggtgcgc agggcacgag cccggccagc tggcagctgg tgagcctggc actgtgcctg 240
atgctgggtgc aggtcatcat cgccactgag tggctgggtgc tgactgtgct acgtgacacg 300
aagccggcct gcgcctacga gcccatggat tttgtgatgg cgctcatcta cgacatgggtg 360
ctgctggcta tcaccctagc gcagtccttc ttcacactgt gtggcaagtt caagcgggtgg 420
aaggtgaacg gagccttcat cctcatcact accttctct ctgtgctcat ctgggtgatc 480
tggatgacca tgtacctctt cggcaactcg ttaattaagc gggcagatgc ctggagcgaa 540
cctaccttgg ccatcacgct g 561

```

<210> 67

<211> 499

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 702147192H1

<400> 67

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gcgctgcggg gacgcgaggg tcgagtgttc ctgggtgtcag agagaaagat gagaacccac 60
caagtgcctc ccttgcccct gctcctgggtg attgaccttg tggcttcgga gaacgccagc 120
acgtcccggg gctgtgggct ggaccttctt cctcagtaag tgacctgtg cgacctggac 180
gccatttggg gaatcgtggg ggaggcagtg gccggggcag gggccctgat cacactgctt 240
ctgatgctta ttctcctggg gagactgccc ttcataaagg acaaggaaag gaggcggcct 300
gtgtgcctcc acttctctct cctgctgggg accctgggac tctttggcct gacgtttgct 360
ttcatcatcc ggatggacga gacaatctgc tccatccgac gcttctcttg ggggtgtcctc 420
ttcgcaactc gcttttctct cctgctgagc caggcgtggc ggggtacggag gctgggtgcgc 480
cagggcacga gcccggcca 499

```

<210> 68

<211> 565

<212> DNA

<213> Canis familiaris

<220>

<221> misc_feature

<223> Incyte ID No: 703557532J1

<220>

<221> unsure

<222> 24

<223> a, t, c, g, or other

<400> 68

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gctgttcaga tcagcaagag catnggggtc ctaacaccac tctggggctc acctgggggtt 60
tggctcttgc actgtgttcc aaggaagcaa gctgtgttcc atattatatt tacactcctc 120
aatgcctttc agggattatt catttgctct tggatgcctc tgggatcaga aggtacagga 180
agccttacta aagaagtttt cactgtcaag atgggtcttct cagcactcaa agtcaacatc 240
cctaggttca tctacaccag tattttctat gagttctcca atatcaagaa gatttaacaa 300
tttattggaa aaacaggaac gtacaagttt ccaccccaga aacaaccagc tcatccctgg 360
aaaacacatc cagtgcctac tccttgctga actaagaaca ggaaaatcta cccacgtgac 420
ttcttaaaag acagcggata tgctctgaaa aaaaaaaaaa atcctttcaa agccatgggg 480
taaaacgggt tcctccgagg cttcccggga gcaaatgctg aagagacctt tcggctttag 540
gggaaaagaa gcttcctttg gtaaa 565

```

<210> 69

<211> 468

<212> DNA

<213> Canis familiaris

<220>

<221> misc_feature

<223> Incyte ID No: 702766139H1

<400> 69

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ccccccagta ggactccaga gatgtttggt actttttgaga aatggcagag tttctggatg 60
actttttccag gctccccaac acctattacg ggatctcggc acatgatgtt ctttccagga 120
accacattaa gcttcataga tgggctccgg actgaattat tagcagcatt aggtaaagtg 180
acaaaatatg tccagctttt ttagacacca ggaaactgat gtccttgcca tgaacttgta 240
tttgcagcac acttgcttgc cattaacttc tttttctgca ggaaaggata aggaatccac 300
ttggaaagtc actctgtagt atctcagtc tctgcaatgc agcatctgaa gtgataggga 360
acccttgtag ggaactgtag cactccagag gatcaacat gatgtttggc tctagaggca 420
gtgggtaaac ggtcacatct ttcattacga cacatgtatg aatacttg 468

```

<210> 70

<211> 263

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> Incyte ID No: 701085654H2

<400> 70

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ctattccaga tcagcaagag tatcgggggc ctcacaccac tcttggggct cacttgggggt 60
ttcgggtcttg ccacagtgat ccagggaagc aatgctgtgt tccacatcat atttactact 120
ctcaatgctt tccaggggct cttcattttg ctctttggct gcctctggga tcagaagggtg 180
caggaagctt tgctgcataa gttttcattg tcaagggtgt cttctcaaca ctcaaagtca 240
acatccatag gttcgtcaac acc 263

```

<210> 71

<211> 246

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> Incyte ID No: 701077530H1

<400> 71

```

cctcattatc tcctctatca cagtgggggt tacgcagcta caggaagtct acatgatgaa 60
gaacgcgtgt tggctcaact gggaggacac cagagcactg ctggcttttg ccatccccgc 120
gttgattatt gtgggtggtaa atgtgagcat cacagttgtg gtcacacca agatcctgag 180
gccctccatt ggggacaagc caggcaagca agagaagagc agcctattcc acatcagcaa 240
gagtat 246

```

<210> 72

<211> 515

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 702147631H1

<400> 72

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